

SMEJKAL, F.; GUT, J.; SORM, F.

The effect of N-methyl-, Thio-, and methylmercaptoderivatives of 6-azauracil on vaccinia virus in vitro. Acta virol. (Praha) [Eng] 6 no.4:364-371 J1 '62.

1. Research Institute of Antibiotics, Roztoky near Prague, and Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

(URACIL related cpds) (VACCINIA virology)

ALEXIEV, B.; HOLEYSOVSKY, V.; SORM, F.

On the structure of some peptides separated from the trypsin hydrolyzate of S-sulfotrypsinogen. Doklady BAN 15 no.7: 755-758 '62.

1. Institut für Organische Chemie and Biochemie an der Tschechoslowakischen Akademie der Wissenschaften, Prag.  
Vorgelegt von Akademiemitglied D. Ivanoff [Ivanov, D.].

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2. "Two Problems of Our Justice in Transition," *A Survey of the Justice of the States*, Princeton, pp. 277-281.

3. "Memoranda Given at Economic Seminars," in: *Review of Reviews*, April 1924, pp. 225-226.

4. "Contribution to the Preparation of the Conference on International Protection of Intellectual Property," in: *Proceedings of the Institute of International Law, University of Cambridge*, Cambridge, University Press, p. N. FORDHAM, pp. 221-222.

5. "Contributions to the English Constitution and to the Action of Parliament," Part I, *Journal of the Society of the Friends of the People*, Cambridge, Vol. 1, No. 1, 1924; Part II, *Journal of the Society of the Friends of the People*, Cambridge, Vol. 1, No. 2, 1924; Part III, *Journal of the Friends of the People*, Cambridge, Vol. 1, No. 3, 1924.

6. "Notes on the Prussian States in the Years 1920-1924," Part 2, *Abhandlungen für Pädagogik und Didaktik*, Berlin, 1924.

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10. "Notes on the Faculty of Law," in: *Prussian Yearbook of Education*, Berlin, 1924.

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18. "Notes on the Faculty of Law," in: *Prussian Yearbook of Education*, Berlin, 1924.

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LAMMI, F.; SOTM, F.

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of ribonuclease. Coll Cz Chem 27 no.2:469-471 F '62.

1. Department of Microbiology, Emory University, Atlanta, Georgia (U.  
S.A.) and Institute of Organic Chemistry and Biochemistry, Czechoslovak  
Academy of Sciences, Prague.

SORM, F.

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B. KELL and L. KELL, Research Institute of Respiration and Biochem-  
istry, Prague, pp. 37-42.

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Diabetes, J. KELL, B. KELL and L. KELL, Institute of Research in  
Metabolism and Diabetology, Prague, pp. 43-47.

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13. On Proteins. Part V. Structure of Protein Glucosides by Paper  
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EK and P. RUDOLPH, Institute of Organic Chemistry and Biochemistry,  
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activities. J. KELL, J. KELLAK and J. KELL, Institute of Chem-  
istry and Technology, Prague, pp. 61-67 (Russian article).

16. Role of the Deterioration of Soaker Formic Acid. J. KELL, S.  
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S. Dzherzhinskii, USSR Academy of Agricultural Sciences, Moscow, pp. 72-75.

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PROGRESS OF CONVENTIONAL CHEMICAL COMMUNICATIONS, 1955-1956 (continued)

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13. "Investigation of the Proteins," by Part II, on the Activity of  
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istry and Biochemistry, at the Czechoslovak Academy of Sciences,  
Prague, 1925-1930 [English article].

14. "Some Proteins to the Occurrence of Amino Acids at Higher Temper-  
atures," A. HALLÉ, V. LIECHI and V. TELKA, from the Institute of Organic  
Chemistry at the Czechoslovak Academy of Sciences, and the Department  
of Chemistry Institute of Charles University, Prague, 1925-1930.

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Medicine, Faculty of Medicine, and the Pathological Institute, of the Czechoslovak  
Academy of Sciences, Prague, 1925-1930.

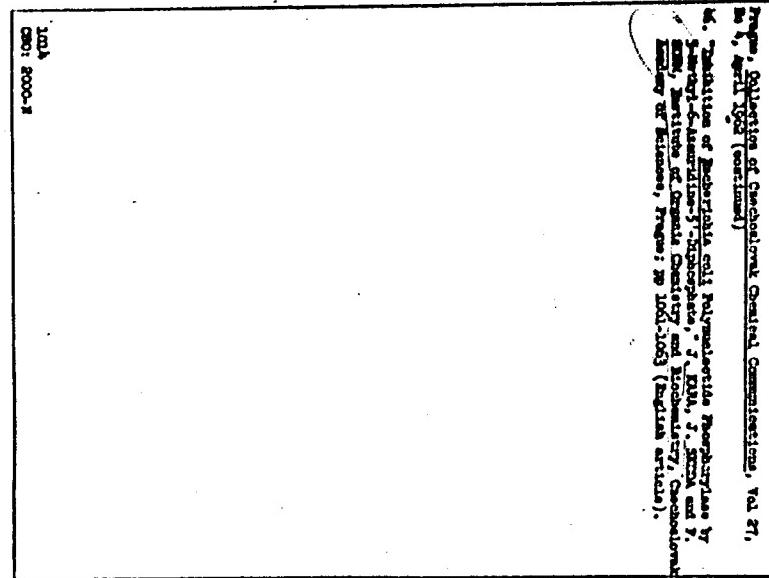
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J. KARWAT, Research Institute for Macromolecular Chemistry, Brno,  
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18. "The Direct Reaction of Nitroso with Tetraalkyl Lead Acetate,"  
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SORIN, E.



NOVOTNY, L.; JIZBA, J.; HEROUT, V.; SORM, F.

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1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

NOVOTNY, L.; HEROUT, V.; SORM, F.

Plant substances. Part 17: Constituents of Petasites  
albus (L) Gaertn. rhizomes. Coll Cz Chem 27 no.6:1400-1403  
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1. Institute of Organic Chemistry and Biochemistry, Czechoslovak  
Academy of Sciences, Prague.

CERNA, J.; GRUNBERGER, D.; SORM, F.

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containing peptidic and acetylglucosamine components.  
Coll Cz Chem 27 no.6:1422-1427 Je '62.

1. Institute of Organic Chemistry and Biochemistry,  
Czechoslovak Academy of Sciences, Prague.

ZEMLICKA, J.; SMRT, J.; SOUDL, F.

Nucleic acid components and their analogues. Part 19:  
Synthesis of 3-methyl-6-azauridine-5'-phosphate and -pyrophosphate.  
Coll Cz Chem 27 no.6:1462-1469 Je '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak  
Academy of Sciences, Prague.

DOSKOCIL, J.; SORM, F.

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1. Institute of Organic Chemistry and Biochemistry,  
Czechoslovak Academy of Sciences, Prague.

PRYSTAS, M.; GUT, J.; SONI, F.

Nucleic acid components and their analogues. Part 21: Synthesis  
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1. Institute of Organic Chemistry and Biochemistry, Czechoslovak  
Academy of Sciences, Prague.

PRYSTAS, M.; SORM, F.

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of 6-azauridine and 5-methyl-6-azauridine. Coll Cz Chem 27  
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1. Institute of Organic Chemistry and Biochemistry, Czechoslovak  
Academy of Sciences, Prague.

. SORM, F.

On proteins. Part 72: The relationship between the structure of certain peptide hormones and the primary structure of haeme proteins. Coll Cs Chem 27 no.7:1604-1607 Jl '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

KEIL, B.; SORM, F.

On proteins. Part 73: Desulfuration of sulfur containing  
amino acids in peptides. Coll Cz Chem 27 no.7:1673-1677  
J1 '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak  
Academy of Sciences, Prague.

KEIL, B.; ZIKAN, J.; REXOVA, L.; SORM, F.

On proteins. Part 74: Hydrogenation of aromatic amino acids  
in peptides. Coll Cz Chem 27 no.7:1678-1686 Jl '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak  
Academy of Sciences, Prague (for Keil and Sorm). 2. Institute  
of Physical Chemistry, Czechoslovak Academy of Sciences, Prague  
(for Zikan). 3. Institute of Chemistry, Slovak Academy of  
Sciences, Bratislava (for Rexova).

SKODA, J.; KARA, J.; CIHAK, A.; SORM, F.

Formation of the ribonucleoside of 5-azauracil by Escherichia coli and isolation of ribosyl biuret as the main decomposition product of 5-azauridine. Coll Cz Chem 27 no.7:1692-1694 Jl '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

SKODA, J.; CIHAK, A.; GUT, J.; PRYSTAS, M.; PISKALA, A.;  
PARKANYI, C.; SORM, F.

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Inhibition of growth of Escherichia coli by derivates of  
pyramidine, 5-azauracil, 6-azauracil and some simpler  
models of these derivates. Coll Cz Chem 27 no.7:1736-1743  
Jl '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak  
Academy of Sciences, Prague. 2. Institute of Physical Chemistry,  
Czechoslovak Academy of Sciences, Prague (for Parkanyi).

FAJKOS, J.; JOSKA, J.; SORM, F.

On steroids. Part 68 : Synthesis of the epimeric 15,16-epoxides in the  
androstane series. Coll Cz Chem 27 no.8:1856-1860 Ag '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy  
of Sciences, Prague.

SUCHY, M.; HEROUT, V.; SORM, F.

On terpenes. Part 139 : Isolation and structure of scabiolide, another sesquiterpenic lactone with a ten-membered ring in molecule. Coll Cz Chem 27 no.8:1905-1913 Ag '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

CHOW, W.Z.; MOTL, O.; SORM, F.

On terpenes. Part 140 : Composition of the oil from *Atractylodes lancea* Thunb. The structure of hinesol. Coll Cz Chem 27 no.8:1914-1926 Ag '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague. 2. On leave of absence from the Institute of Organic Chemistry, Academia Sinica, Shanghai (for Chow).

MIKES, O.; HOLEYSOVSKY, V.; TOMASEK, V.; KEIL, B.; SORM, F.

On proteins. Part 76 : Structure of peptides isolated from a tryptic digest of diisopropylphosphoryl-trypsin. Coll Cz Chem 27 no.8:1964-1987 Ag '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

SORM, F.; KNICHAL, V.

On proteins. Part 77 : Mathematical approach to the evaluation of  
similarities in protein structures. Coll Cz Chem 27 no.8:1985-1996  
Ag '62.

1. Institute of Organic Chemistry and Biochemistry and Mathematical  
Institute, Czechoslovak Academy of Sciences, Prague.

SUCHY, M.; HEROUT, V.; SORM, F.

On terpenes. Part 141: Absolute configuration of cnicin and scabiolide.  
Coll Cz chem 27 no.10:2398-2403 0 '62.

1. Institut of Organic Chemistry and Biochemistry, Czechoslovak  
Academy of Sciences, Prague.

SORM, F.

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RYCHLIK, I.

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Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of  
Science, Prague.

Prague, Collection of Czechoslovak Chemical Communications, vol 27, No 10,  
Oct 62, pp 2433-2443.

"Formation of the  $\alpha$ - and  $\beta$ -Chain of Rabbit Haemoglobin"

Co-author:

SORM, F., same as above

KREPINSKY, J.; ROMANUK, M.; HEROUT, V.; SORM, F.

On terpenes. Part 142: Structure of the sesquiterpenic ketone  
valeranone. Coll Cz Chem 27 no.11:2638-2653 N '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak  
Academy of Sciences, Prague.

HOLEYSOVSKY, V.; ALEXIJEV, B.; TOMASEK, V.; MIKES, O.; SORM, F.

On proteins. Part 78: Peptides isolated from the soluble amount  
of tryptic digest of S-sulfotrypsinogen. Coll Cz Chem 27  
no.11:2662-2680 N '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak  
Academy of Sciences, Prague. 2. Present address: Institute of  
Chemical Technology, Sofia (for Alexijev).

RYCHLIK, I.; SORM, F.

Replacement of amino acids in proteins and ribonucleic acid  
coding. Coll Cz Chem 27 no.11:2686-2691 N '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak  
Academy of Sciences, Prague.

VRKOC, J.; HEROUT, V.; SORM, F.

On terpenes. Part 143: Cryptocoronene, a new stereoisomer of acorone. Coll Cs Chem 27 no.11;2709-2710 N '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

HORA, J.; CERNY, V.; SORM, F.

On steroids. Part 70: Cyclopropane ring formation in deamination  
of 18-amino steroids. Coll Cz Chem 27 no.12:2771-2777 D '62.

1. Institut of Organic Chemistry and Biochemistry, Czechoslovak  
Academy of Sciences, Prague.

KASAL, A.; CERNY, V.; SORM, F.

On steroids. Part 71: Mercury acetate dehydrogenation of conanine derivatives. Preparation of 3-substituted lactams derived from 18-methylamino-5 $\alpha$ -etianic acid. Coll Cz Chem 27 no.12:2898-2906 D '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

KEIL, B.; PRUSIK, Z.; MORAVEK, L.; SORM, F.

On proteins. Part 81: The disulfide bonds of  $\alpha$ -chymotrypsinogen and peptides from its peptic hydrolysate. Coll Cz Chem 27 no.12: 2945-2955 D '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

RYCHLIK, I.; KALOUSEK, F.; SORM, F.

Nucleotide analogues and protein synthesis in vitro. Coll Cz Chem  
27 no.12:2956-2965 D '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak  
Academy of Sciences, Prague.

S/026/62/000/002/001/004  
D036/D113

AUTHOR: Šorm, Fr., Academician (Prague)

TITLE: Proteins, their structure and functions

PERIODICAL: Priroda, no. 2, 1962, 11-18

TEXT: The structure and functions of proteins are reviewed. Scientists in Prague first formulated the proposition that the structure of proteins reflected phylogenetic development. The successful synthesis of hypophysial hormones such as oxytocin and vasopressin is mentioned. In Prague an analogue of vasopressin, in which the effect on the blood pressure was reduced by preserving the antidiuretic effect, was synthesized. In this analogue the hydroxyl group in the tyrosine radical was replaced by a methoxyl group. Synthesis of proteins will lead to superior types of artificial fibers and plastics, artificial enzymes for the chemical and food industries and more stable artificial enzymes for the economical production of raw foodstuffs. In conclusion, it is stated that the main goal is to further develop individual

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species and adapt them in order to utilize their useful characteristics; for example, it may be possible in the future to create artificial self-reproducing systems based on other complex polymers simpler than proteins. In conditions different from those in which present forms of life exist. Engels is mentioned as having first recognized the significance of proteins in living matter, and the Russian botanist M.S.Tsvet is stated to have proposed the so-called chromatographic methods of establishing the order of the amino-acids in the peptide chains of simple proteins. There is 1 figure and 3 tables.

Card 2/2

KOZESNIK, Jaroslav, akademik; BLASKOVIC, Dionyz, akademik; KOIMAN, Arnost, akademik; MACURA, Jiri, dr.; VANA, Josef; COSIOROVSKY, Milos; BOHEM, Jaroslav, akademik; PROCHAZKA, Jaroslav, prof., dr.; HAMPEJS, Zdenek, dr.; BRABEC, Frantisek, prof, inz., dr.; SORM, Frantisek, akademik; NOVAK, Josef, akademik; NEUMANN, Jaromir, doc., dr.; BAZANT, Vladimir, inz., dr.; KOUNOVSKY, Bohumil, dr.; SZANTO, Jan, dr.; ROZSIVAL, Miroslav, dr.; KASPAR, Jan, dr.; HANKA, Ladislav, prof., inz.; STRNAD, Julius; WICHTERLE, Otto, akademik; ZATOPEK, Alois; JAVORNICKY, Jan, inz.; VAVRA, Jaroslav, dr.; BLATTNY, Ctibor, akademik; ONDRIS, Karol, dr.; KUKAL, Vaclav, inz.

The 22d Congress of the Communist Party of the Soviet Union and the tasks of Czechoslovak science; discussion. Vestnik CSAV 71 no.1:3-59 '62.

1. Hlavni vedecky sekretar Ceskoslovenske akademie ved (for Kozesnik).
2. Clen korespondent Ceskoslovenske akademie ved (for Vana, Cosiorovsky, Kaspar, Strnad, Zatopek). 3. Rektor Karlovy university (for Prochazka).
4. Rektor Ceskeho vysokeho ucenii technickeho (for Brabec). 5. Namestek presidenta Ceskoslovenske akademie ved (for Sorm)

RADA, B.; BLASKOVIC, D.; GUT, J.; SORM, F.

Screening of antimetabolites inhibiting virus multiplication. I.  
Inhibition of virus multiplication by acetylurea derivatives. Acta  
virol. 7 no.2:152-155 Mr '63.

1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava,  
and Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy  
of Sciences, Prague.  
(VACCINIA VIRUS) (NEWCASTLE DISEASE VIRUS) (ENCEPHALITIS VIRUSES)  
(VIRUS CULTIVATION) (ANTIVIRAL AGENTS) (UREA)  
(TISSUE CULTURE) (ANTIMETABOLITES)

SORM, F.; VESELY, J.

The immunization of leukaemic AK mice with isologous leukaemic  
cells incubated in 5-bis-(2-chloroethyl) aminomethyluracil.  
Neoplasma 10 no. 3:217-220 '63.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak  
Academy of Sciences, Prague, CSSR.

(LEUKEMIA, EXPERIMENTAL)

(NEOPLASM IMMUNOLOGY)

(ANTINEOPLASTIC AGENTS)

(PHARMACOLOGY)

SORM, Frantisek, prof. dr.

Syntheses of certain antimetabolites of nucleic acids.  
Wiad chem 17 no.11:613-630 N°63.

1. Prezes Czechoslowackiej Akademii Nauk, Praga

SMRT, J.; SORM, F.

Oligonucleotidic compounds. Pt.3. Coll Cz Chem 28 no.1:61-71 Ja '63.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak  
Academy of Sciences, Prague.

JOSKA, J.; FAJKOS, J.; SORM, F.

CSSR

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Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy  
of Science, Prague

Prague, Collection of Czechoslovak Chemical Communications, No 1, 1963,  
pp 82-100.

"On Steroids, LXXII. Fission of the 5 $\alpha$ ,6 $\alpha$ -Epoxyderivatives in the  
B-Norsteroid Series"

(3)

ZELICKA, J.; SMRT, J.; SORM, F.

CSSR

no academic degrees indicated

Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of  
Science, Prague (for all)

Prague, Collection of Czechoslovak Chemical Communications, No. 1, 1963,

"Nucleic Acids Components and Their Analogues. XXVII.  
The Synthesis of 6-Azuaridine-5' Triphosphate"

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KASAL, A.; CERNY, V.; SORM, F.

On steroids. Pt.73. Coll Cz Chem 28 no.2:411-420 F '63.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

BERANEK, J.; SORM, F.

Nucleic acid components and their analogues. Pt.29.  
Coll Cz Chem 28 no.2:469-480 F '63.

1. Institute of Organic Chemistry and Biochemistry,  
Czechoslovak Academy of Sciences, Prague.

PLIML, J.; SORM, F.

Nucleic acid components and their analogues. Pt.28.  
Coll Cz Chem 28 no.2:546-550 F '63.

1. Institute of Organic Chemistry and Biochemistry,  
Czechoslovak Academy of Sciences, Prague.

FAJKOS, J.; JOSKA, J.; SORM, F.

On steroids. Pts. 74-75. Coll Cz Chem 28 no.3:605-628 Mr '63.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak  
Academy of Sciences, Prague.

ZAORAL, M.; PLISKA, V.; REZABEK, K.; SORM, F.

Synthesis of a highly effective analog of lysine-vasopressin.  
Coll Cz Chem 28 no.3:746-747 Mr '63.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak  
Academy of Sciences, Prague, and Research Institute for Pharmacy  
and Biochemistry, Prague.

ZAORAL, M.; PLISKA, V.; REZABEK, K.; SORM, F.

Synthesis of two lysine-vasopressin analog with protracted  
hormonal activity. Coll Cs Chem 28 no.3:747-749 Mr '63.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak  
Academy of Sciences, Prague, and Research Institute for Pharmacy  
and Biochemistry, Prague.

FARKAS, J.; SORM, F.

Nucleic acid components and their analogs. Pt. 30. Coll Cz  
Chem 28 no.4:882-886 Ap '63.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak  
Academy of Sciences, Prague.

SMRT, J; ŠORM, F.

Czechoslovakia

Institute of Organic Chemistry and Biochemistry,  
Czechoslovak Academy of Science -- Prague (for  
all)

Prague, Collection of Czechoslovak Chemical Communi-  
cations, No 4, 1963, pp 887-897

"Oligonucleotidic Compounds. IV. Preparation of Diribonucleo-  
tides Uridyl-(5' to 3')-Uridine-5' Phosphate,  
6- $\alpha$ -Azauridylyl-(5' to 3')-Uridine-5' Phosphate and  
Uridyl-(5' to 3')-Cytidine-5' Phosphate."

2

GRÜNBERGER, D; ŠORM, F.

Czechoslovakia

Institute of Organic Chemistry and Biochemistry,  
Czechoslovak Academy of Science -- Prague - (for all)

Vd.  
Prague Collection of Czechoslovak Chemical Communications,  
No 4, 1963, pp 1044-1050

"Relationship between 8-Azaguanine-containing Ribonucleic  
Acid and Protein Synthesis in Bacillus cereus."

2

VRKOC, J.; HEROUT, V.; SORM, F.

On terpenes. Pt. 149. Coll Cz Chem 28 no.4:1084-1086 Ap '63.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak  
Academy of Sciences, Prague.

CERNA, J.; RYCHLIK, I.; GRUNBERGER, D.; SORM, F.

Effect of 5-fluorouracil-containing ribonucleic acid on  
protein synthesis by Escherichia coli in vivo. Coll Cz  
Chem 28 no. 5: 1215-1223 My '63.

1. Institute of Organic Chemistry and Biochemistry,  
Czechoslovak Academy of Sciences, Prague.

2  
CZECHOSLOVAKIA

WOLLRAB, V; STREIBL, M; SORK, F.

Institute of Organic Chemistry and Biochemistry,  
Czechoslovak Academy of Science, Prague (for all)

Prague, Collection of Czechoslovak Chemical Communi-  
cations, No 5, 1963, pp 1316-1324

"On the Composition of Lignite IV. On the Group  
Separation of the Wax Portion of Montan Wax with  
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